Hurricane Harvey 2017
9/5/2017 – 1600 CDT Update

EXECUTIVE SUMMARY

- On September 5, 2017, Texas Commission on Environmental Quality (TCEQ) and EPA of members of the Texas Optimization Program for Surface Water Plants (TOPS) staff are providing technical assistance to the City of Beaumont water system. The power source has been restored and the system is currently pumping water. Because of the previous low pressure issues, the city continues to be under a boil water notice.

- At today's briefing for Governor Abbot he asked EPA to assist TCEQ in assessing two State Superfund Sites in Beaumont and Port Arthur. At today's briefing for Houston Mayor Turner he asked EPA to sample NPL Superfund sites within the city.

- EPA continues drinking water / waste water (DW/WW) system assessments, hazard evaluations, and container recovery operations in coordination with state and local partners.

- EPA is a participant on the Vector Control Task Force in developing plans for mosquito control in flooded areas.

- EPA Senior Agency Representative has been established at the federal Joint Field Office (JFO) in Austin. Kell Kelly, Senior Advisor to the Administrator will rotate into Austin on Thursday.

- EPA is deploying a surge of Community Coordinators to integrate into County Emergency Operations Centers throughout the impacted area and provide information regarding the environmental hazards related to flood waters on structures in the affected area.

- EPA continues to conduct ambient air monitoring in Houston, and is evaluating an area of potential concern associated with emissions from Valero is in Houston Refinery. EPA's Trace Atmospheric Gas Analyzer (TAGA) is conducting air monitoring in southeast Houston around the Valero Refinery. An EPA On Scene Coordinator is deployed to the site in order to conduct additional assessments.

PUBLIC AFFAIRS

EPA has deployed a Public Information Officer (PIO) to the FEMA Joint Field Office in Austin. The PIO will be the EPA representative to the FEMA Joint Information Center (JIC).

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EPA hosted a call with Environmental Justice (EJ) contacts in Texas and Louisiana to discuss community concerns regarding impacted areas. EPA is establishing an EJ Network and will hold weekly calls to keep the Network abreast of EJ concerns. EPA is coordinating wit EJ contacts requesting information various environmental issues.

Preparations are being made to deploy Community Liaisons to the Houston area on Wednesday. Community Liaisons will in disseminate information on the hazards of flood waters, mold, residential well water testing, and other issues. to the neighborhoods, rural areas, local businesses, and other agencies.

DEBRIS RECOVERY

EPA currently has no mission assignment for debris recovery operations.

AIR MONITORING

EPA's mobile air monitoring TAGA bus is conducting air monitoring in the Houston area today, focusing on 2 refineries.

EPA continues to conduct additional air monitoring near the Valero Refinery in areas north and south of the intersection of 225 and 610 in Houston. Additional sampling locations were added to include areas around the Houston Ship Channel.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/4/2017	**Cumulative**	**9/4/2017**	**Cumulative**
Corpus Christi Branch	3	46	8	58
Houston Branch	33	127	5	15
NRC Reports	0	3	0	0
* Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.				

Daily/Cumulative Summary of Spills/Discharges				
Status	**Opened**		**Closed**	
	9/4/2017	**Cumulative**	**9/4/2017**	**Cumulative**
Corpus Christi Branch	12	351	4	32
Houston Branch	7	37	3	6
NRC Reports	6	27	8	15

FIELD RESPONSE ACTIVITIES

The table below displays the teams deployed in the Corpus Christi, Houston and Port Arthur Branches during this operational period:

Quantity and Types of Teams Deployed September 5, 2017			
Team Type	**Corpus Christi Branch**	**Houston Branch**	**Port Arthur / Beaumont**
Water Assessment Teams	0	15	15
Hazard Evaluation	1	19	4
Oil Discharge Assessment	2	6	1
Container Recovery	0	0	1
ER/Recovery Group	3	1	0
Air Operations Group	0	1	1
Air Monitoring Team	0	1	0

CORPUS CHRISTI BRANCH:

- Liaison staff attended the Nueces County Local Emergency Planning Committee meeting. Forty-two people were in attendance. EPA liaison reported out on the work EPA has accomplished to date and what is projected to be done under the Unified Command.

- Oil Discharge Recovery Groups are continuing to prioritize vessels, contact marinas and relocate vessels. They are also actively responding to active pollution discharges.

- Oil Discharge Assessment Group 1 completed target assessments in Ingleside Bay and mobilized to Hampton's Landing Marina in Aransas Pass. Group 1 continued to oversee fuel operations of the Signet Enterprise at Aransas Pass. Removal operations of the Signet Enterprise continued today with 10,000 gallons of diesel fuel removed today and 45,000 gallons overall.

	CONTAINERS			TOTAL
	Drums [55 gals]	**Large Containers [<55 gals]**	**Large Containers [>55 gals]**	
9/4/2017	10	0	3	13
Total to date	49	32	5	86

HOUSTON BRANCH:

- On September 5, 2017, weather delayed EPA's aerial aircraft finished surveying Matagorda and most of Brazoria counties. The remainder of Brazoria county will be surveyed ono September 6, 2017.

- Aerial rapid needs assessment of Austin, Colorado, and Matagorda counties were conducted to assess receding waters and potential orphan containers/oil discharge targets for recovery operations.

- The air operations helicopter teams continued clearing grids in Liberty and Chambers county for inland Hazard Assessment.

- EPA conducted air monitoring throughout Manchester neighborhood in Pasadena.

- Water teams conducted site assessments at drinking water and wastewater facilities. Facilities were prioritized based on the findings of the on-site assessments which determine the overall operational status of those facilities.

PORT ARTHUR/BEAUMONT BRANCH:

- It is anticipated that the Port Arthur/Beaumont Branch should be fully ready by Wednesday, September 6, 2017.
- Teams conducted emergency orphan container recovery.

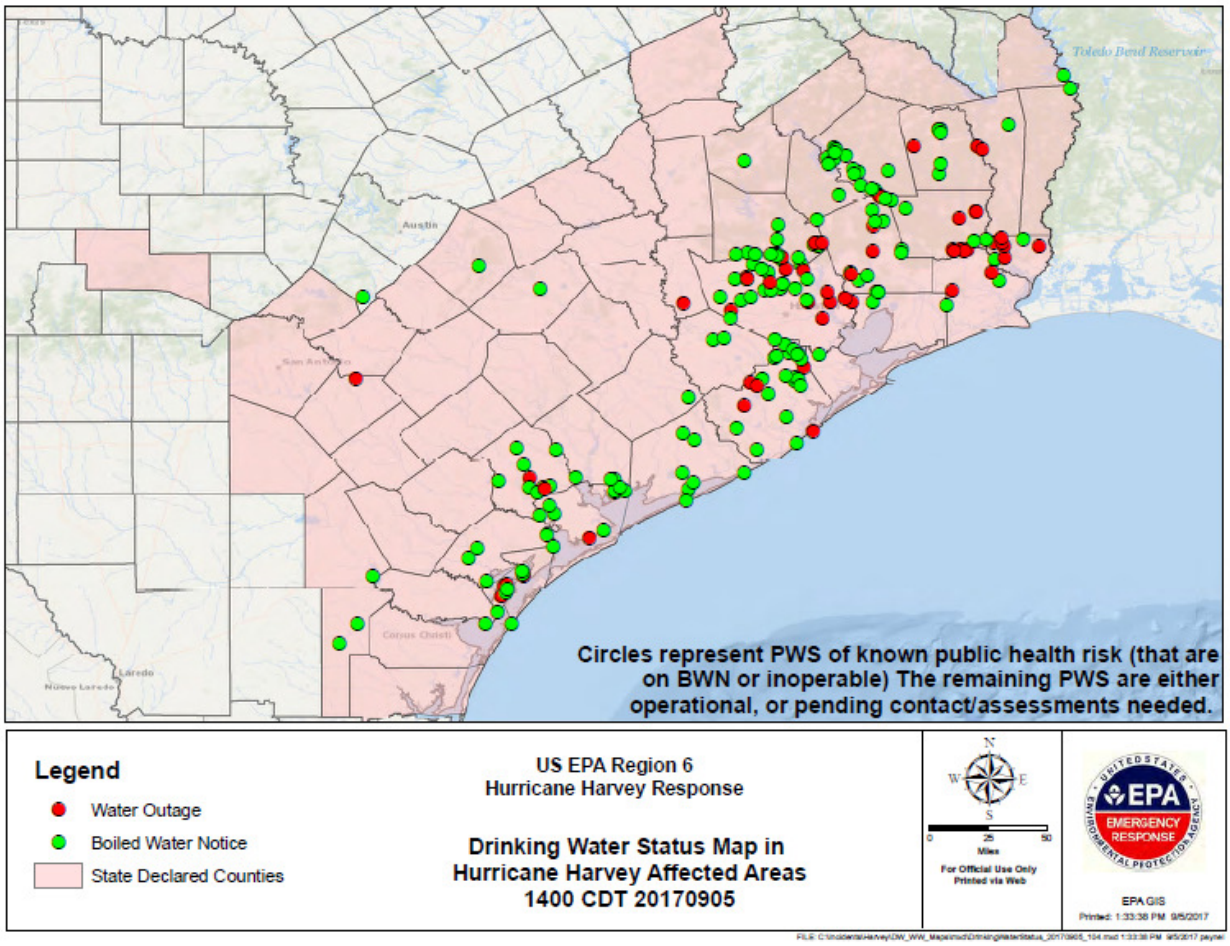
DRINKING WATER / WASTEWATER ASSESSMENTS

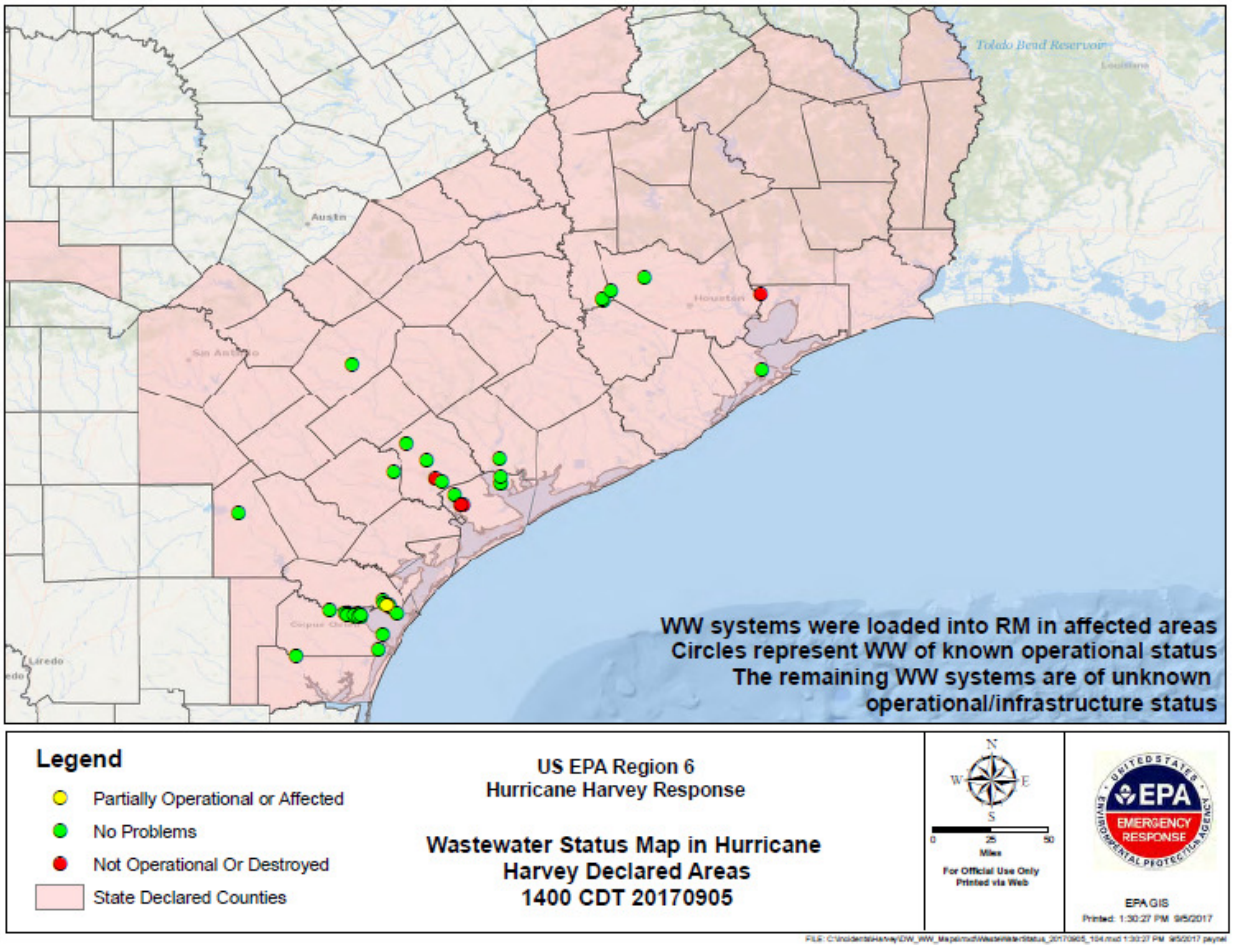
EPA is providing support to TCEQ for drinking water (DW) and wastewater (WW) system assessments. There are 10 members at the TCEQ Austin phone bank including one assisting with data flow and technical regulatory questions. In addition, DW and WW assessment teams are currently set up in Houston, with additional members arriving this week. Current Houston response activities consist of nine EPA personnel 6 and three from Region 6 conducting DW or WW assessments in the Harris County area. In addition, two members are providing support to the City of Beaumont in coordination with TCEQ. Additional EPA personnel will arrive in Houston to conduct field assessments in the Houston Branch.

Of the approximately 4500 water systems that were initially projected to be impacted by Hurricane Harvey, approximately 3,607 systems were in the affected area (58 State Declared Counties). Of

the systems in the affected areas, 2,175 are public water systems that serve a population of 10,878,982 and 596 are non-transient non-community (NTNC) water systems that serve hospitals, health care facilities, nursing homes and day cares, with a population of 216,871.

As of five o'clock September 4, 2017 the EPA and TCEQ had made contact with 2,252 public Community and NTNC water systems and had confirmed 1,507 are fully operational and servicing water to 9,523,361 people, or 87.5% of the population served, in the affected area. As of September 4, 2017, 148 systems reported being on a boil water notice and 50 have reported a water outage.





EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	TX SOC Austin, TX	TCEQ Austin, TX	*Houston, TX	Crosby, TX	Corpus Christi, TX	Beaumont/ Port Arthur	HQ EOC, Wash, DC	TOTAL
EPA	31	2	3	11	28	0	21	3	17	116
START	7		1	1	12		6			27
ERRS					7		8			15
Other Contractors	1								6	7
TOTAL	39	2	4	12	47	0	35	3	23	165

FUNDING

Mission Assignment 4332DR-TX-01 was amended to add $255,000 bringing the total to $275,000 for providing an EPA representative at the Denton FEMA Regional Response Communications Center and two EPA Representatives to the State of Texas Emergency Operations Center.

September 5, 2017, UPDATED 1300 hours

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A		$64,200.00	$0.00		
MA 4332DR-TX-EPA-01	$275,000.00	$242,741.00	$16,272.00	$226,469.00	$2,848.00	79.52
MA 4332DR-TX-EPA-03	$8,592,000.00	$7,584,077.00	$3,586,730.86	$3,997,346.14	$291,500.98	13.71
Totals:	$8,867,000.00	$7,826,818.00	$3,667,202.86	$4,223,815.14		

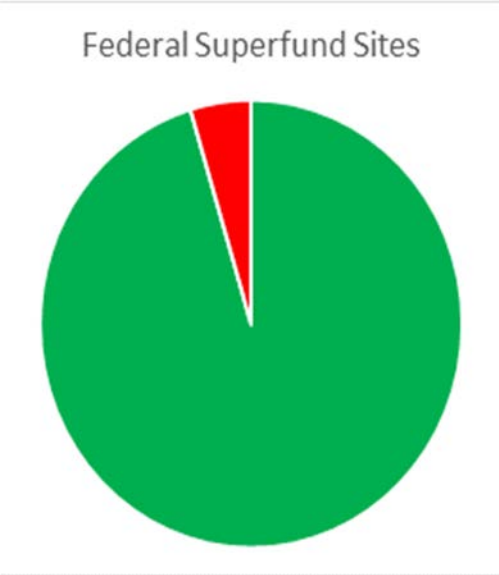
** Indirect costs represent the money the Cincinnati Shared Service Center takes off the top to manage the Mission Assignments

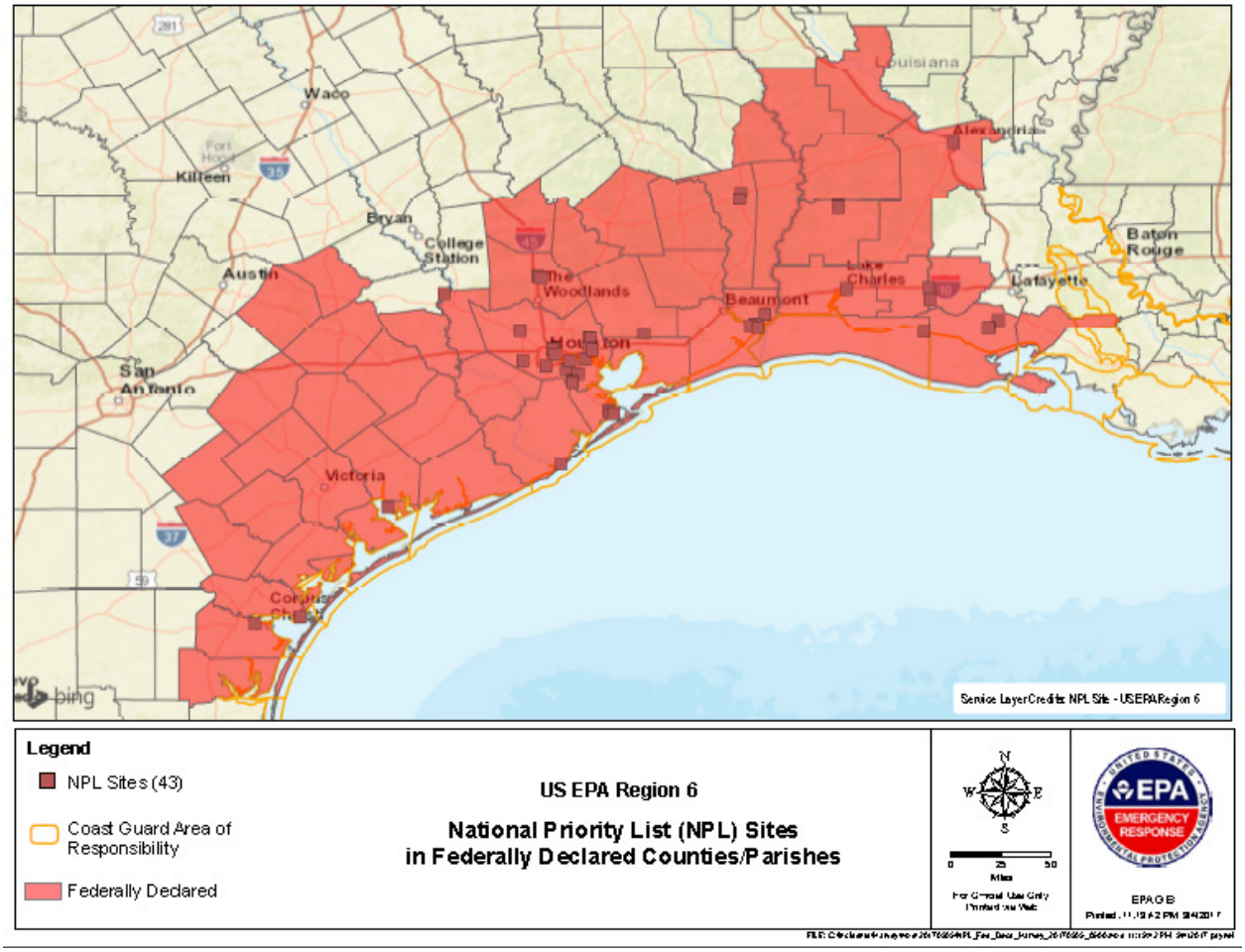
REFINERIES/FUEL WAIVERS

- EPA has granted all open fuel waivers requested to date.
- Colonial Pipeline was reopened.
- Ports of Corpus Christi and Houston are open.
- EPA has issued a No Action Assurance for the Use of Vapor Recovery Systems in Texas Related to Hurricane Harvey (September 1, 2017). EPA will exercise its discretion not to pursue enforcement for violations of the vapor recovery requirements for fuel loading and unloading under 40 CFR Part 60 Subpart XX and Part 63 Subparts, R, Y, CC, BBBBBB, and 30 Texas Administrative Code sections 115.212, .214.
- The Internal Revenue Service has expanded the red dye fuel waiver to cover the entire state of Texas, not just the 110 counties as before.

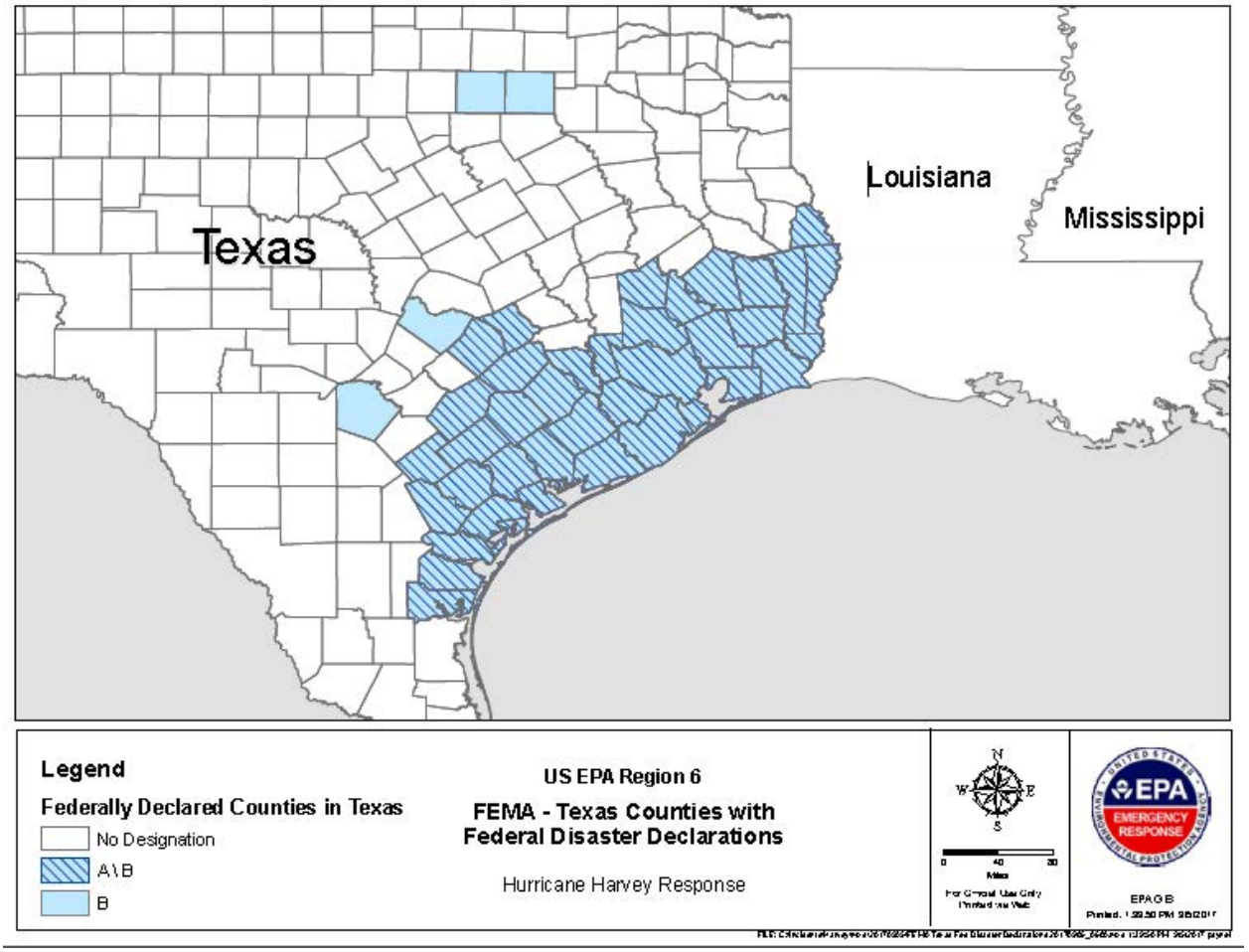
FEDERAL SUPERFUND NPL SITES

- All 43 Federal Superfund NPL Sites in the affected area have been assessed
- 41 sites have been cleared.
- Two sites (San Jacinto Pits and US Oil Recovery) require additional follow up scheduled for September 5, 2017





FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



9/5/2017 FIELD ACTIVITIES

PHOTOS

Alpha Branch Staging Pad: Aransas Pass Pad

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Alpha Brach Site Assessment